

Title (en)

METHOD FOR PROTECTING SENSOR DATA FROM MANIPULATION, AND SENSOR TO THIS END

Title (de)

VERFAHREN ZUM MANIPULATIONSSCHUTZ VON SENSORDATEN UND SENSOR HIERZU

Title (fr)

PROCÉDÉ DE PROTECTION CONTRE DES MANIPULATIONS DE DONNÉES DE CAPTEUR ET CAPTEUR CORRESPONDANT

Publication

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Application

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Abstract (en)

[origin: WO2011039037A1] The invention relates to a method for protecting sensor data from manipulation, and a sensor to this end. In the course of authenticating the sensor, a one-time-use number is sent to the sensor by a control device, wherein the sensor generates a cryptographic authentication message using the one-time-use number and sends at least one first part of the cryptographic authentication message to the control device. The sensor data are further provided with cryptographic integrity protection, wherein time-variable parameters are added to the sensor data, and wherein the sensor data having the cryptographic integrity protection and the added time-variable parameters are sent to the control device by the sensor. At least one second part of the cryptographic authentication message is utilized for calculating initial parameters and at least one third part of the cryptographic authentication message is utilized for calculating the cryptographic integrity protection, and the time-variable parameters are calculated using the initial parameters.

IPC 8 full level

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